

Title (en)

TANGENTIAL MOTOR, TANGENTIAL MOTOR ROTOR AND ROTOR IRON CORE THEREOF

Title (de)

TANGENTIALMOTOR, TANGENTIALMOTORROTOR UND ROTOREISENKERN DAFÜR

Title (fr)

MOTEUR TANGENTIEL, ROTOR DE MOTEUR TANGENTIEL ET NOYAU DE FER DE ROTOR ASSOCIÉ

Publication

EP 3667869 A1 20200617 (EN)

Application

EP 17920956 A 20171228

Priority

- CN 201710676617 A 20170809
- CN 2017119434 W 20171228

Abstract (en)

A tangential motor, a tangential motor rotor and a rotor iron core thereof. The rotor iron core includes a rotor body (1) and permanent magnet slots (2) provided on the rotor body (1), a rotor magnetic pole between two adjacent permanent magnet slots (2) being provided with a fixing hole (11) for fixing a rotor punched segment and a flux isolating hole (12); the flux isolating hole (12) is located at an outer side of the fixing hole (11) in a radial direction of the rotor body (1), a width of the flux isolating hole (12) smoothly increases in a direction from the outer side of the rotor body (1) to a center of a circle thereof. The rotor iron core reduces vibration noise of the motor, and improves efficiency of the motor.

IPC 8 full level

H02K 1/27 (2006.01); **H02K 29/03** (2006.01)

CPC (source: CN EP US)

H02K 1/2766 (2013.01 - CN); **H02K 1/2773** (2013.01 - EP US); **H02K 29/03** (2013.01 - CN EP US); **H02K 2213/03** (2013.01 - CN EP US); **Y02T 10/64** (2013.01 - EP)

Cited by

US11522397B2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3667869 A1 20200617; **EP 3667869 A4 20200729**; **EP 3667869 B1 20211124**; CN 107222047 A 20170929; CN 107222047 B 20230721; DK 3667869 T3 20211220; US 11387695 B2 20220712; US 2020381965 A1 20201203; WO 2019029109 A1 20190214; WO 2019029109 A9 20191114

DOCDB simple family (application)

EP 17920956 A 20171228; CN 201710676617 A 20170809; CN 2017119434 W 20171228; DK 17920956 T 20171228; US 201716636626 A 20171228